

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P231512

Luminaire Tested: **SSLED-LD5-12-W-UNV-L835-CD1-U-CLR22-FRCDL22**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P231512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SSLED-LD5-12-W-UNV-L835-CD1-U-CLR22-FRCDL22
Description: STEELER CLEAR REFRACTOR LENS AND CIRCULAR DROP
Light Source: (240) 3500 CCT, 80 CRI LEDS
Ballast/Driver: (1) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10527.0 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.32 / 1.45
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 1')
CIE Type: Semi-Direct

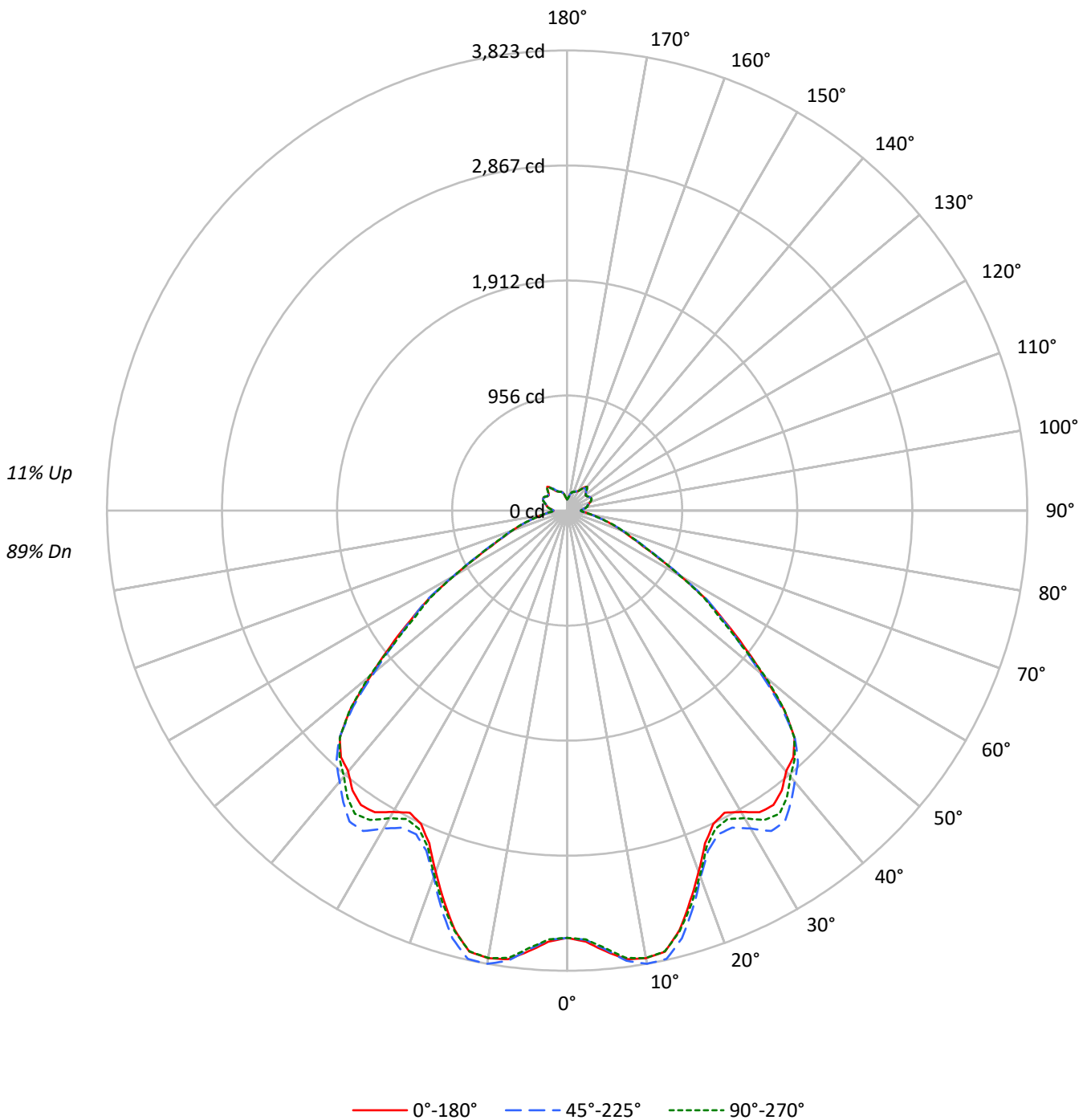
Input Watts (W): 85.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	107	103	99	95	103	99	96	93	93	90	88	87	85	83	82	80	79	76
2	98	91	85	79	95	88	82	78	83	78	74	78	74	71	73	70	68	65
3	90	80	73	67	87	78	71	66	73	68	63	69	65	61	65	62	58	56
4	83	72	63	57	80	70	62	56	66	59	54	62	57	52	59	54	51	48
5	76	64	56	50	73	62	55	49	59	52	47	56	50	46	53	48	44	42
6	70	58	49	43	68	56	48	43	53	47	42	51	45	40	48	43	39	37
7	65	53	44	38	63	51	43	38	49	42	37	46	40	36	44	39	35	33
8	61	48	40	34	59	47	39	34	45	38	33	42	36	32	40	35	31	29
9	57	44	36	31	55	43	35	30	41	34	30	39	33	29	37	32	28	26
10	53	40	33	28	51	40	32	27	38	31	27	36	30	26	35	29	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14472	14472	14472
5°	14180	14123	14081
10°	13927	14103	13923
15°	12839	13096	12865
20°	11061	11222	11172
25°	9763	10085	9909
30°	9715	10248	9918
35°	10005	10563	10298
40°	9515	9892	9700
45°	9095	9112	9084
50°	7374	7271	7450
55°	5671	5607	5503
60°	4030	4056	3997
65°	2674	2748	2706
70°	1981	2003	2010
75°	1440	1443	1443
80°	1028	1014	1023
85°	717	720	720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.5	3.4
10°-20°	1009.6	9.6
20°-30°	1391.3	13.2
30°-40°	1892.5	18.0
40°-50°	2017.3	19.2
50°-60°	1422.9	13.5
60°-70°	726.3	6.9
70°-80°	355.7	3.4
80°-90°	161.3	1.5
90°-100°	148.9	1.4
100°-110°	191.4	1.8
110°-120°	216.5	2.1
120°-130°	186.4	1.8
130°-140°	173.4	1.6
140°-150°	141.3	1.3
150°-160°	82.3	0.8
160°-170°	44.4	0.4
170°-180°	11.1	0.1
0°-30°	2755.4	26.2
0°-40°	4647.9	44.2
0°-60°	8088.1	76.8
0°-90°	9331.5	88.6
90°-120°	556.7	5.3
90°-150°	1057.7	10.0
90°-180°	1195.0	11.4
0°-180°	10527.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3549	3549	3549	3549	3549	
5°	3675	3667	3660	3648	3649	354
15°	3608	3639	3680	3640	3615	1000
25°	2873	2973	2968	3003	2916	1354
35°	2987	2994	3154	3038	3075	1844
45°	2673	2663	2678	2688	2669	2001
55°	1589	1604	1571	1577	1542	1428
65°	690	698	709	702	698	716
75°	328	327	329	326	329	355
85°	137	138	138	137	138	130
90°	113	114	113	114	114	64
95°	135	135	134	136	136	116
105°	182	180	178	178	179	192
115°	222	222	221	222	224	217
125°	205	204	206	206	207	186
135°	223	223	223	227	228	174
145°	227	224	228	224	224	142
155°	173	174	176	174	175	81
165°	158	157	157	156	158	44
175°	107	107	106	107	107	11
180°	92	92	92	92	92	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3549.1	3549.1	3549.1	3549.1	3549.1
2.5°	3584.9	3578.9	3569.4	3567.0	3565.2
5°	3674.9	3667.1	3660.0	3648.0	3649.2
7.5°	3759.5	3764.2	3772.6	3758.3	3748.7
10°	3775.5	3793.4	3823.2	3798.8	3774.4
12.5°	3754.1	3782.7	3814.3	3778.5	3749.9
15°	3607.5	3639.1	3679.6	3640.3	3614.7
17.5°	3400.2	3427.0	3469.3	3425.2	3428.8
20°	3193.5	3222.6	3239.9	3249.5	3225.6
22.5°	2992.7	3069.5	3057.0	3094.0	3024.2
25°	2872.9	2973.0	2967.6	3003.4	2915.8
27.5°	2829.4	2946.2	2968.8	2970.6	2887.8
30°	2890.8	2937.3	3049.3	2970.6	2951.0
32.5°	2972.4	2955.7	3156.5	3004.0	3047.5
35°	2987.3	2993.9	3154.1	3038.5	3074.9
37.5°	2928.9	3001.6	3054.6	3048.1	3000.4
40°	2829.4	2946.2	2941.4	2975.4	2884.2
42.5°	2780.6	2837.8	2837.8	2862.2	2798.4
45°	2672.7	2662.6	2677.5	2687.6	2669.2
47.5°	2441.6	2422.5	2413.0	2448.1	2446.3
50°	2124.6	2112.1	2094.8	2136.5	2146.6
52.5°	1848.2	1821.9	1805.9	1817.8	1806.4
55°	1589.0	1603.9	1571.1	1577.1	1541.9
57.5°	1359.6	1393.0	1378.1	1373.3	1347.1
60°	1088.5	1111.8	1095.7	1102.8	1079.6
62.5°	856.2	872.2	879.4	876.4	864.5
65°	689.9	697.7	709.0	701.8	698.3
67.5°	569.6	576.7	579.7	577.9	580.3
70°	483.2	485.0	488.6	483.2	490.3
72.5°	404.5	408.1	408.1	408.7	412.3
75°	328.3	327.1	328.9	326.5	328.9
77.5°	263.9	263.9	262.7	261.6	265.1
80°	216.3	213.9	213.3	212.7	215.1
82.5°	172.2	172.8	172.8	172.2	171.6
85°	137.0	137.6	137.6	137.0	137.6
87.5°	118.0	118.0	118.6	118.6	118.0
90°	113.2	113.8	113.2	114.4	114.4
92.5°	120.9	120.9	121.5	122.7	122.1
95°	135.2	134.6	134.1	135.8	136.4
97.5°	148.9	148.4	149.5	150.7	151.9
100°	164.4	164.4	165.6	166.2	167.4
102.5°	171.0	171.0	170.4	172.2	173.4
105°	181.7	179.9	177.5	178.1	179.3
107.5°	190.1	189.5	188.9	190.1	190.7
110°	202.6	202.0	202.0	202.0	203.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	215.1	215.1	214.5	215.1	216.3
115°	222.2	221.6	221.0	221.6	224.0
117.5°	224.0	224.0	222.8	224.6	226.4
120°	221.0	220.4	220.4	221.6	223.4
122.5°	213.3	212.7	212.7	213.9	215.7
125°	205.0	204.4	205.5	205.5	206.7
127.5°	199.0	199.6	200.8	199.6	200.2
130°	200.2	200.8	203.2	201.4	201.4
132.5°	206.7	207.3	211.5	210.3	210.3
135°	223.4	222.8	223.4	227.0	227.6
137.5°	242.5	237.7	231.2	243.1	246.1
140°	258.6	245.5	243.1	248.4	257.4
142.5°	246.7	239.5	233.6	240.7	246.1
145°	227.0	224.0	227.6	224.0	224.0
147.5°	204.4	208.5	216.3	205.5	205.0
150°	187.1	195.4	198.4	192.4	188.3
152.5°	179.3	182.9	184.7	181.7	181.7
155°	173.4	174.0	175.8	174.0	175.2
157.5°	169.2	171.0	171.0	171.0	170.4
160°	165.6	168.0	167.4	167.4	166.2
162.5°	163.2	164.4	163.8	163.8	163.8
165°	157.9	156.7	156.7	155.5	157.9
167.5°	148.9	147.2	147.2	146.6	148.4
170°	137.6	137.6	137.0	137.0	135.8
172.5°	119.2	118.6	118.0	118.0	118.0
175°	107.2	106.6	105.5	106.6	106.6
177.5°	98.3	98.3	98.9	97.7	97.7
180°	92.3	92.3	92.3	92.3	92.3

(END OF REPORT)